

FLANGED INNER CONDUCTOR COAXIAL RESONATORS

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus for making an inner conductor from a conductive body
integrally forms a flange on one end of the conductive body. The flange is formed
integral to the conductive body by flaring the end of the conductive body. The size and
shape of the flange is selected to achieve a desired capacitance surface area for use in a
resonator. A resonator housing that has a plurality of cavities can be provided with a
10 plurality of conductive bodies that are inserted into holes located in a bottom wall of the
resonator body and that protrude into the plurality of cavities. The resonator housing and
conductive bodies are placed onto a flanging fixture to produce a flange on each
conductive body of a desired size and shape to achieve a desired capacitance surface area.
The plurality of conductive bodies can be simultaneously flanged and fastened to the base
15 of the resonator housing.